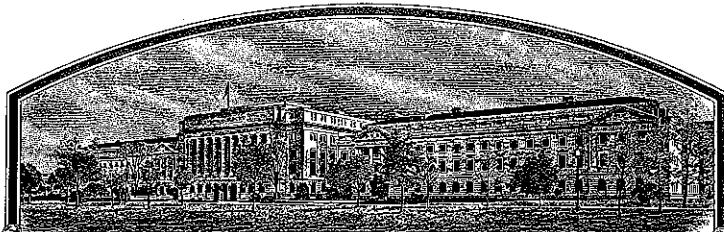


No.

200000192



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

O & A Enterprises, Inc.

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HERETO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF Viable BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR CUTTING IT, OR HARVESTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSES, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED IN THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

COTTON

'DP 6207 Acala'

In Testimony Whereof, I have hereunto set my hand
and caused the seal of the Plant Variety
Protection Office to be affixed at the City of
Washington, D.C. this twenty-fifth day of
August, in the year two thousand and five.

Attest:

Commissioner

Plant Variety Protection Office
Agricultural Marketing Service

Secretary of Agriculture

REPRODUCE LOCALLY. *Include form number and date on all reproductions.*

FORM APPROVED - OMB NO. 0581-0055

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY DIVISION - PLANT VARIETY PROTECTION OFFICE

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE
(Instructions and information collection burden statement on reverse)

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF APPLICANT(S) (as it is to appear on the Certificate)

O & A Enterprises, Inc.

2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER

OA-207

3. VARIETY NAME

DP 6207 ACALA

4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country)

37860 W. Smith Enke Road PO BOX 1440
Maricopa, AZ 85239

6. TELEPHONE (include area code)

(520) 568-2276 X2192

FOR OFFICIAL USE ONLY

PVPO NUMBER

00000192

6. FAX (include area code)

(520) 568-2556

FILING DATE

3/28/00

7. GENUS AND SPECIES NAME

Gossypium Hirsutum

6. FAMILY NAME (Botanical)

Malvaceae

FILING AND EXAMINATION FEE:

\$ 2450

DATE

3/28/00

8. CROP KIND NAME (Common name)

Cotton

10. IF THE APPLICANT NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION (corporation, partnership, association, etc.) (Common name)

Corporation

11. IF INCORPORATED, GIVE STATE OF INCORPORATION

Delaware

12. DATE OF INCORPORATION

April 1998

RECEIVED

\$ 682.00

DATE

7/25/00

13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS

Dr. James M. Olvey

O & A Enterprises, Inc.

37860 W. Smith Enke Road

Maricopa, AZ 85239

PO BOX 1440

Wahl
2/17/04
Wahl

14. TELEPHONE (include area code)

16. FAX (include area code)

16. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on reverse)

- Exhibit A. Origin and Breeding History of the Variety
- Exhibit B. Statement of Distinctness
- Exhibit C. Objective Description of the Variety
- Exhibit D. Additional Description of the Variety (Optional)
- Exhibit E. Statement of the Basis of the Applicant's Ownership
- Voucher Sample (2,500 viable untreated seeds or, for tuber propagated varieties verification that tissue culture will be deposited and maintained in an approved public repository)
- Filing and Examination Fee (\$2,450), made payable to "Treasurer of the United States" (Mail to PVPO)

17. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY, AS A CLASS OF CERTIFIED SEED? (See Section 83(a) of the Plant Variety Protection Act)

YES (If "yes," answer items 18 and 19 below)

NO (If "no," go to item 20)

18. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?

YES NO

19. IF "YES" TO ITEM 18, WHICH CLASSES OF PRODUCTION BEYOND BREEDER SEED?

FOUNDATION REGISTERED CERTIFIED

20. HAS THE VARIETY OR A HYBRID PRODUCED FROM THE VARIETY BEEN RELEASED, USED, OFFERED FOR SALE, OR MARKETED IN THE U.S. OR OTHER COUNTRIES?

YES (If "yes," give names of countries and dates)

NO

U.S. April 1999

21. The applicant(s) declare that a viable sample of basic seed of the variety will be furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate.

The undersigned applicant(s) is(are) the owner(s) of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 42, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.

Applicant(s) is(are) informed that false representation herein can jeopardize protection and result in penalties.

SIGNATURE OF APPLICANT (Owner(s))

Dr. James M. Olvey

NAME (Please print or type)

Dr. James M. Olvey

CAPACITY OR TITLE

President

SIGNATURE OF APPLICANT (Owner(s))

NAME (Please print or type)

DATE

3-23-2000

DATE

200000192
REPLACEMENT
3/9/04 LAL

Revised
Exhibit A
Origin and Breeding History
Acala OA-207

On March 16, 1991, O & A Enterprises, Inc. (O&A) received USDA germplasm, numbered 0207-1 from the Shafter research program. The prior number was 9275-1, which was an F3 of the cross between (N9281 X T5690) X (N6072 X SS2086).

Acala OA-207 originated from a single plant selection made in 1992 from the F3 population of (N9281 X T5690) X (N6072 X SS2086). Acala OA-207 was tested in several areas in the San Joaquin Valley (SJV) and has completed the SJVCB's 3-year Cotton Board's testing program. Acala OA-207 is well adapted to high verticillium wilt soils, has excellent heat tolerance for an Acala, has excellent seedling vigor and is productive throughout the SJV.

Stability and uniformity of Acala OA-207 has been observed for 4 crop seasons in which no variants have occurred. The variety is stable and uniform.

Breeding History

1987 Cross	(N9281 X T5690) X (N6072 X SS2086)
1988	F1
1989	F2
1990	F3 (Increased by ARS)
1991	F4 (Increased by O & A) in AZ for heat tolerance
1992	Individual Plant Selection by O&A in California
1993	Progeny Row
1994	Preliminary Strains
1995	Advanced Strains
1996	1 st Year SJVCB Testing and Increase
1997	2 nd Year SJVCB Testing and Increase
1998	3 rd Year SJVCB Testing and Increase
1999	Commercial Release

The selection criteria for DP 6207 Acala was for heat tolerance. Heat tolerance is a problem for many Acala varieties grown in the San Joaquin Valley in California. This particular variety was selected for its ability to withstand the higher temperature fluctuations prevalent in the San Joaquin Valley that can lead to stand loss and subsequent loss in yield.

20000192

Exhibit B

Statement of Distinctness Comparison of OA-207 to Maxxa (Standard)

The following is a summary of some of the differences between OA-207 and the current standard, Maxxa. All data were obtained from 1997 and 1998 SJVCB Acala Variety Trials or National Standards Tests.

1. OA-207 has significantly higher yields than Maxxa. (Table 1)

		1997-1998
		2-year average
		15 location strip tests
OA-207		1359 a
Maxxa		1300 b

2. OA-207 is significantly earlier maturing than Maxxa. (Table 2)

		1997
		Maturity Ratings
		Estimated % open Oct. 1
OA-207		89 a
Maxxa		85 b
LSD (.05)		3

3. OA-207 has significantly greater heat tolerance than Maxxa.
4. OA-207 is significantly stronger than Maxxa. (Tables 3-4)

1998		
Strength T1		
	Starlab	Visalia Classing Office
OA-207	25.6 a	36.0 a
Maxxa	24.5 b	35.1 b
LSD (.05)	0.6	0.8

5. OA-207 is significantly finer than Maxxa and has a significantly higher maturity ratio. (Tables 5-6)

	1997	1998
	Fineness (AFIS)	Maturity Ratio
OA-207	165 a	0.959 a
Maxxa	161 b	0.944 b
LSD (.05)	3	0.006

20000192

6. The yarn strength of OA-207 is significantly greater than Maxxa. (Tables 7-8)

	Carded 22's Yarn Tenacity		
	National Standards Variety Test	SJVCB - Starlab	
	1997	1998	1998
OA-207	144 a	152 a	160 a
Maxxa	138 b	145 b	156 b
LSD (.05)	6	5	3

8. OA-207 has significantly more grams seed cotton per boll than Maxxa. (Table 9)

	1997
OA-207	7.3 a
Maxxa	6.7 b
LSD (.05)	0.3

8. OA-207 is significantly longer than Maxxa. (Tables 10-11)

	1998	Length 2.5%SL	
	Starlab	SJVCB ACALA II Test	
OA-207	1.22 a	1.220 a	
Maxxa	1.20 b	1.182 b	
LSD (.05)	0.02	0.015	

9. OA-207 has significantly fewer neps and thick fibers on carded 50's and significantly fewer neps, thick fibers and thin fibers on combed 50's than Maxxa. (Table 12)

	carded 50's		combed 50's		
	neps	thick	neps	thick	thin
	OA-207	1611 a	1812 a	275 a	363 a
Maxxa	1875 b	1950 b	328 b	429 b	257 b
LSD (.05)	188	133	37	29	31

200000192

10. OA-207 has significantly fewer neps and thin fibers on 36 count yarn (rotor) and significantly fewer neps and thick fibers on 36 count yarn (ring) than Maxxa. (Table 13)

	1997 36 count yarn appearance			
	rotor	thin	neps	ring
	neps	thin	neps	thick
OA-207	173 a	359 a	1103 a	1236 a
Maxxa	210 b	394 b	1276 b	1364 b
LSD (.05)	36	28	153	113

11. In cottonseed analysis, OA-207 has significantly less % linters and % NH3 than Maxxa. (Table 14)

	1997	% linter	%NH3
OA-207	9.8 a	4.59 a	
Maxxa	10.3 b	4.74 b	
LSD (.05)	0.5	0.10	

12. In the 2-year fiber quality summary for 1997-1998, OA-207 had significantly higher seed quality. (Tables found in Exhibit D)

	1997-1998			
	SJVCB Acala Yarn Quality Summary			
	% oil	% linters	Grade	% gossypol
OA-207	20.2 b	10.0 b	113 c	0.99 b
Maxxa	19.6 c	11.0 d	111 d	1.13 c

13. OA-207 has significantly less manufacturing waste (total) than Maxxa. (Tables found In Exhibit D)

	1997-1998	
	SJVCB Acala Yarn Quality Summary	
	% Manufacturing Waste (Total Waste)	
OA-207	19.5 b	
Maxxa	20.4 cd	

20000192

Table 1
SJVCB 1998 (page 58)

SJVCB ACALA VARIETY TEST SUMMARY OF YIELDS 1997-98

	<u>Buttonwillow</u>		<u>Wasco</u>		<u>Tulare</u>	<u>Waukena</u>	<u>Strat*</u>	<u>Cor*</u>
	<u>1997</u>	<u>1998</u>	<u>1997</u>	<u>1998</u>	<u>1997</u>	<u>1998</u>	<u>1997</u>	<u>1998</u>
Maxxa	1252a	654 b	1869a	860 b	1485 b	1086 bc	959 b	1086a
BR 9605	1268a	644 b	1848a	843 bc	1526 b	1109ab	1038ab	1069a
C-165	1329a	537 c	1771a	800 c	1550ab	1020 c	1077ab	1045a
C-166	1304a	440 d	1853a	682 d	1459 b	1068 bc	935 b	1060a
OA 207	1334a	766a	1928a	944a	1650a	1174a	1164a	1083a
Avg	1297	608	1854	826	1534	1091	1035	1068
%CV	3.8	4.2	6.1	2.9	4.5	3.4	8.5	2.7
	<u>WSES</u>		<u>Firebaugh**</u>		<u>Chowchilla*</u>		<u>Los Banos*</u>	
	<u>1997</u>	<u>1998</u>	<u>1997</u>	<u>1998</u>	<u>1997</u>	<u>1998</u>	<u>1997</u>	<u>1998</u>
Maxxa	1857a	1068ab	1616abc	--	1597a	1261a	1695a	1160a
BR 9605	1837a	973 cd	1500 c	--	1530a	1230a	1565 c	1107ab
C-165	1856a	1016 bc	1657ab	--	1597a	1248a	1675a	1066ab
C-166	1556 b	932 d	1533 bc	--	1525a	1213a	1620 b	995 b
OA 207	1733a	1105a	1685a	--	1651a	1293a	1705a	1167a
Avg	1768	1019	1598	--	1580	1249	1652	1099
%CV	6.2	3.2	4.9	--	4.6	3.3	2.0	5.4

* Stratford, Chowchilla and Los Banos locations - 30" rows

**Moderate Verticillium wilt at Firebaugh

	2yr.		
	<u>1997</u>	<u>1998</u>	<u>Avg.</u>
Maxxa	1541ab	1025 b	1300 b
BR 9605	1514 bc	997 bc	1272 b
C-165	1564ab	962 cd	1283 b
C-166	1473 c	913 d	1212 c
OA 207	1606a	1076a	1359a
Avg	1540	994	1285
% CV	5.2	3.7	5.1

Treatments within a column not having a letter in common are significantly different at the 5% level.

200000192

Table 2
SJVCB 1997 (page 18)

MATURITY RATINGS*

	BUTTON	WASCO	TULARE	STRAT	WSFS	FIREB.	CHOW	LBNOS	MEAN
MAXXA	89	98	77	71	89	68	97	94	85
BR 9602	94	97	73	70	92	68	95	96	85
BR 9605	92	98	84	76	91	71	97	92	88
C-151	90	98	82	71	91	71	96	94	87
C-153	92	99	87	79	95	65	98	97	89
C-162	89	98	78	72	92	68	96	96	86
C-165	94	95	76	75	86	68	98	94	86
C-166	86	97	77	66	82	73	96	94	84
GC-9427	92	98	84	74	94	65	97	95	87
GC-9533	91	99	82	76	94	69	97	97	88
GC-9536	90	98	84	75	91	68	94	93	86
OA-207	93	99	85	75	95	71	99	97	89
OA-211	86	98	75	74	90	70	97	95	85
PHY 56	90	99	89	75	93	66	97	98	88
PHY 68	93	98	84	78	93	69	98	96	88
PHY 69	91	99	90	64	87	68	97	98	86
AVERAGE	91	98	81	73	91	68	97	95	87
LSD .05	NS	NS	9	NS	4	NS	2	3	3
%CV	4.3	1.7	7.9	8.3	3.4	5.2	1.5	2.1	4.5

*Estimated % open Oct 1

20000192

Table 3
SJVCB 1998 (page 32)

SJVCB ACALA II TEST - 1998
T1 FIBER STRENGTH - STARLAB

	BUTTON WILLOW	WAU WASCO	COR KENA	CORAN	CHOW WSFS	CHILLA	LOS BANOS	MEAN
MAXXA	25.4	22.6	24.6	25.5	24.7	25.1	24.0	24.5
BR 9605	25.8	23.1	24.5	24.7	23.7	25.2	24.6	24.5
C-165	27.3	26.4	27.2	28.1	26.8	26.1	27.1	27.0
C-166	28.2	27.2	28.0	28.1	27.0	27.0	27.3	27.5
OA-207	26.5	24.2	26.6	27.6	24.3	24.6	25.7	25.6
AVERAGE	26.6	24.7	26.2	26.8	25.3	25.6	25.7	25.8
LSD .05	NS	2.5	1.2	NS	1.7	1.2	2.2	0.6
%CV	3.1	3.6	1.6	3.7	2.4	1.6	3.1	2.9

Table 4
SJVCB 1998 (page 25)

SJVCB ACALA II TEST - 1998
VISALIA CLASSING OFFICE SUMMARY

	LENGTH	UNIF	STR	MIC	Rd	B+	COLOR*	LEAF GRADE
MAXXA	1.18	84.4	35.1	4.29	77.6	7.4	96	4.4
BR 9605	1.19	84.2	35.0	4.34	77.2	7.3	96	4.9
C-165	1.19	84.3	35.9	4.39	77.9	7.4	97	4.4
C-166	1.24	85.0	37.3	4.19	77.5	7.4	96	5.1
OA-207	1.22	84.5	36.0	4.38	77.8	7.3	96	4.5
LSD .05	0.01	0.5	0.8	0.08	NS	NS	NS	0.4
%CV	1.6	0.8	3.0	2.3	1.0	2.1	1.9	10.9

Color & leaf grade manually classed - others measured on HVI
 *Color Grade Index - 104=SM(21) 100=M(31) 97=SLM+(40) 94=SLM(41)

20000192

Table 5
SJVCB 1997 (page 43)

SJVCB ACALA VARIETY TEST - 1997

FINENESS - AFIS

	BUTTON WILLOW	WASCO	TULARE	STRAT FORD	WSFS	FIRE BAUGH	CHOW CHILLA	LOS BANOS	MEAN
MAXXA	169	166	156	160	158	155	166	160	161
BR 9602	169	156	147	153	157	156	162	149	156
BR 9605	173	162	159	162	159	156	161	159	161
C-151	169	154	150	156	157	155	161	151	157
C-153	158	148	144	151	153	150	157	146	151
C-162	168	155	150	154	157	155	161	152	156
C-165	172	161	156	162	162	152	166	159	161
C-166	163	148	154	148	154	149	156	157	153
GC-9427	168	159	153	157	158	152	162	159	158
GC-9533	165	153	150	153	156	153	158	155	155
GC-9536	172	160	153	158	163	160	164	159	161
OA-207	175	161	165	159	167	157	166	168	165
OA-211	169	157	160	157	157	152	163	160	159
PHY 56	169	149	156	156	162	153	158	157	157
PHY 68	169	155	157	155	162	150	164	155	158
PHY 69	170	149	156	152	155	150	158	155	155
AVERAGE	168	156	154	156	158	153	161	156	158
LSD .05	4	5	6	4	5	NS	5	4	3
%CV	1.1	1.6	2.0	1.3	1.4	2.2	1.5	1.1	1.5

20000192

Table 6
SJVCB 1997 (page 43)

MATURITY RATIO - AFIS

	BUTTON WILLOW	WASCO	TULARE	STRAT FORD	WSFS	FIRE BAUGH	CHOW CHILLA	LOS BANOS	MEAN	
MAXXA	.910	.930	.855	.865	.865	.855	.890	.875	.881	
BR 9602	.950	.915	.850	.875	.890	.890	.900	.865	.892	
BR 9605	.935	.900	.875	.865	.880	.880	.865	.870	.884	
C-151	.930	.895	.855	.865	.880	.870	.875	.845	.877	
C-153	.905	.900	.850	.860	.885	.865	.890	.845	.875	
C-162	.925	.900	.845	.860	.870	.875	.880	.850	.876	
C-165	.950	.945	.880	.905	.895	.865	.910	.885	.904	
C-166	.935	.900	.850	.860	.885	.870	.885	.915	.888	
GC-9427	.945	.930	.890	.885	.890	.870	.900	.905	.902	
GC-9533	.935	.905	.875	.875	.890	.870	.880	.885	.889	
GC-9536	.960	.930	.880	.885	.920	.895	.910	.900	.910	
OA-207	.945	.910	.900	.870	.915	.865	.900	.920	.903	
OA-211	.915	.875	.875	.870	.855	.845	.880	.875	.874	
PHY 56	.935	.865	.880	.890	.910	.865	.885	.895	.891	
PHY 68	.945	.885	.860	.875	.900	.845	.900	.865	.884	
PHY 69	.925	.840	.845	.850	.860	.840	.860	.850	.859	
AVERAGE	.934	.902	.867	.872	.887	.867	.888	.878	.887	
LSD	.05	.022	.022	.027	.023	.024	NS	.027	.013	.014
%CV		1.1	1.1	1.5	1.3	1.3	1.9	1.4	0.7	1.3

20000192

Table 7
 San Joaquin Valley
 National Standard Test Summary 1997
 Page 8

FIBER QUALITY SUMMARY - 1997

	2.5%SL	UNIF	T1	E1	MIC	YTEN
LA-887	1.17	48.7	20.6	7.9	4.25	122
PAY HS-26	1.13	50.1	21.2	9.3	4.38	121
SG 125	1.16	49.6	18.9	7.3	4.33	110
MAXXA	1.17	49.8	23.1	7.3	4.08	138
BR 9602	1.21	48.8	23.2	6.5	3.90	148
BR 9605	1.17	49.4	22.4	7.0	4.23	140
C-151	1.21	50.8	24.2	7.8	4.18	144
C-153	1.19	49.8	25.2	6.8	3.75	146
C-162	1.19	50.0	23.4	8.3	4.33	144
C-165	1.18	49.6	24.1	6.5	4.38	145
C-166	1.21	49.6	25.3	6.9	4.03	152
GC-9427	1.20	49.8	24.7	6.8	4.28	152
GC-9533	1.20	49.8	24.7	6.1	4.20	156
GC-9536	1.20	49.4	24.1	6.0	4.15	152
OA-207	1.17	49.6	23.1	6.1	4.25	144
OA-211	1.20	48.8	22.7	6.4	4.05	136
PHY 56	1.19	50.2	26.0	6.5	4.15	148
PHY 68	1.20	49.8	23.4	6.1	4.08	147
PHY 69	1.19	50.2	21.9	7.0	4.15	142
LSD	.05	0.02	NS	1.5	1.6	0.31
%CV		1.1	1.8	4.3	16.4	5.1
						6
						2.8

Table 8
SJVCB 1998 (page 51)

SJVCB ACALA II TEST - 1998

CARDED 22 S YARN TENACITY - STARLAB

	BUTTON WILLOW	WAU WASCO	COR KENA	CORAN	WSFS	CHOW CHILLA	LOS BANOS	MEAN
MAXXA	165	152	155	154	153	155	155	156
BR 9605	163	148	155	161	140	153	159	154
C-165	177	158	169	168	167	166	171	168
C-166	179	169	171	174	168	177	172	173
OA-207	166	153	158	165	157	160	161	160
AVERAGE	170	156	162	164	157	162	164	162
LSD .05	6	12	7	NS	15	NS	6	3
%CV	1.3	2.7	1.6	2.9	3.3	3.6	1.4	2.6

200000192

Revised Exhibit B

Table 9
Grams/Boll

SJVCB Variety Test - 1997 (page 21)

BOLL SIZE - LINT % - GIN TURNOUT

	GRAMS/ BOLL	LINT %	GIN TURNOUT
MAXXA	6.7	43.2	36.8
BR 9602	7.2	39.4	33.4
BR 9605	6.7	42.2	35.9
C-151	6.5	45.3	39.0
C-153	6.0	43.8	37.6
C-162	5.9	44.4	39.0
C-165	6.4	43.1	37.2
C-166	7.1	42.6	35.9
GC-9427	6.4	41.7	34.7
GC-9533	6.6	40.4	33.9
GC-9536	6.1	42.5	35.7
OA-207	7.3	41.7	35.4
OA-211	6.6	43.0	36.5
PHY 56	6.8	39.6	32.9
PHY 68	6.9	39.6	33.0
PHY 69	7.0	38.7	32.4
LSD .05	0.3	1.1	0.6
%CV	7.1	3.2	1.4

20000192

Table 10
SJVCB ACALA II TEST 1998 (page 8)

**SJVCB ACALA II TEST - 1998
2.5% SPAN LENGTH - STARLAB**

	BUTTON WILLOW	WAU WASCO	COR KENA	CORAN	WSFS	CHOW CHILLA	LOS BANOS	MEAN
MAXXA	1.20	1.21	1.21	1.19	1.19	1.19	1.19	1.20
BR 9605	1.21	1.23	1.21	1.23	1.19	1.21	1.23	1.22
C-165	1.21	1.22	1.21	1.23	1.19	1.19	1.21	1.21
C-166	1.27	1.24	1.27	1.23	1.23	1.23	1.21	1.24
OA-207	1.25	1.22	1.21	1.21	1.21	1.23	1.20	1.22
AVERAGE	1.23	1.22	1.22	1.22	1.20	1.21	1.21	1.22
LSD	.05	0.02	NS	0.00	0.00	0.00	0.00	0.02
%CV		0.5	1.0	0.0	0.0	0.1	0.1	0.4

Table 11
SJVCB ACALA II TEST 1998 (page 30)

FIBER AND YARN QUALITY

	LENGTH	UNIF	STR	MIC	22'S YTEN
MAXXA	1.182	84.4	35.1	4.29	156
BR 9605	1.193	84.2	35.0	4.34	154
C-165	1.185	84.3	35.9	4.39	168
C-166	1.239	85.0	37.3	4.19	173
OA-207	1.220	84.5	36.0	4.38	160
LSD	.05	.015	0.5	0.08	3
%CV		1.6	0.8	3.0	2.6

200000192

Table 12
SJVCB 1997 (page 22)

	CARDED 50'S					COMBED 50'S				
	NEPS	THICK	THIN	CV%	AI*	NEPS	THICK	THIN	CV%	AI*
MAXXA	1875	1950	988	24.3	90	328	429	257	18.5	113
BR 9602	1545	1627	709	22.9	93	306	323	131	17.4	108
BR 9605	1676	1908	1009	24.2	95	265	393	232	18.3	112
C-151	1546	1551	578	22.6	98	301	321	137	17.5	117
C-153	2173	1960	727	23.8	85	377	329	108	17.2	103
C-162	1708	1590	622	22.8	90	371	323	141	17.4	113
C-165	1656	1731	808	23.5	97	273	324	166	17.8	115
C-166	1526	1509	529	22.2	90	285	270	101	16.9	108
GC-9427	1537	1602	637	22.9	88	269	307	154	17.4	120
GC-9533	1496	1522	597	22.6	97	287	306	169	17.5	113
GC-9536	1575	1624	635	22.9	97	263	294	143	17.4	118
OA-207	1611	1812	923	24.0	95	275	363	208	18.1	118
OA-211	1898	2075	1077	24.7	90	289	400	244	18.3	118
PHY 56	1931	1738	656	23.1	90	340	317	139	17.4	115
PHY 68	1410	1478	668	22.7	100	250	279	137	17.3	118
PHY 69	1575	1572	652	22.8	87	278	309	147	17.5	115
LSD .05	188	133	99	0.5	NS	37	29	31	0.2	9
%CV	5.2	3.8	8.5	0.9	12.1	10.8	7.6	11.9	0.9	7.0

*AI = Appearance Index

Average of 3 locations - Wasco Tulare Los Banos

200000192

Table 13
SJVCB 1997 (page 23)

36 COUNT YARN APPEARANCE

ROTOR

RING

	NEPS*	THICK	THIN	CV%	AI**	NEPS*	THICK	THIN	CV%	AI**
MAXXA	210	394	227	17.9	115	1276	1364	518	22.1	90
BR 9602	150	296	104	16.9	123	939	1052	334	20.8	88
BR 9605	173	368	180	17.7	117	1124	1298	512	22.0	90
C-151	213	320	124	17.1	118	1150	1012	305	20.6	90
C-153	236	273	72	16.5	112	1581	1301	334	21.5	90
C-162	232	314	113	17.0	115	1306	1050	288	20.6	97
C-165	181	350	164	17.5	122	1144	1172	427	21.5	93
C-166	147	249	82	16.5	120	1017	933	234	20.1	92
GC-9427	199	334	133	17.3	113	1067	1018	299	20.6	103
GC-9533	188	324	130	17.2	113	1031	1015	296	20.7	97
GC-9536	195	320	136	17.2	122	1123	1083	326	20.8	95
OA-207	173	359	195	17.7	117	1103	1236	520	21.9	97
OA-211	179	339	165	17.5	118	1202	1387	542	22.3	85
PHY 56	237	302	116	17.0	120	1425	1140	319	21.0	90
PHY 68	193	321	134	17.1	115	964	893	261	20.3	93
PHY 69	227	342	148	17.3	113	1148	1029	320	20.7	88
LSD .05	36	39	28	0.2	NS	153	113	69	0.5	9
%CV	11.2	7.0	17.3	0.9	7.2	5.7	5.1	10.0	1.4	8.5

Neps per 1000 yards - Uster

**AI= Appearance Index

Table 14
SJVCB 1997 (page 24)

**SJVCB ACALA VARIETY TEST - 1997
COTTONSEED ANALYSIS***

	% MOIST	% F.M.	% LINTER	% FFA	% OIL	% NH3	% GOSYPL	GRADE
MAXXA	7.4	0.4	10.3	0.3	19.8	4.74	1.16	112
BR 9602	7.4	0.8	4.7	0.4	21.4	4.64	0.93	118
BR 9605	7.2	0.2	9.8	0.3	20.4	4.71	1.15	115
C-151	7.5	0.8	9.5	0.3	20.2	4.96	1.08	115
C-153	7.5	0.7	11.0	0.4	19.8	4.78	1.23	113
C-162	7.6	0.5	10.5	0.3	18.8	4.75	1.04	108
C-165	7.3	0.5	9.9	0.3	20.2	4.94	1.15	115
C-166	6.9	0.8	8.8	0.2	22.1	4.76	0.08	122
GC-9427	7.3	0.5	9.6	0.2	20.0	4.78	1.13	114
GC-9533	7.4	0.7	8.9	0.1	20.4	4.73	1.05	115
GC-9536	7.5	0.4	10.7	0.2	20.1	4.69	1.21	113
OA-207	7.2	0.4	9.8	0.3	20.1	4.59	1.10	113
OA-211	7.4	0.7	10.4	0.2	19.6	4.66	1.19	111
PHY 56	7.0	0.6	10.0	0.4	20.6	4.47	1.14	114
PHY 68	7.1	0.5	9.3	0.3	20.1	4.57	0.89	113
PHY 69	6.9	0.4	9.5	0.3	21.0	4.42	0.98	116
LSD .05	0.3	0.3	0.5	0.2	0.6	0.10	0.08	3
%CV	3.1	53.8	2.5	51.8	1.7	1.8	3.9	1.4

*Average of 3 locations - Wasco Tulare Los Banos

U.S. DEPARTMENT OF AGRICULTURE
PLANT VARIETY PROTECTION OFFICE, AMS, USDA
NATIONAL AGRICULTURAL LIBRARY Bldg., Rm. 500
10301 BALTIMORE Blvd.
BELTSVILLE, MD 20705

OBJECTIVE DESCRIPTION OF VARIETY
COTTON (*Gossypium* spp.)

NAME OF APPLICANT(S)	TEMPORARY DESIGNATION	VARIETY NAME
O & A Enterprises, Inc.	OA-207	DP 6207 ACALA
ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP CODE)	<u>FOR OFFICIAL USE ONLY</u> PVPO NUMBER	
37860 W. Smith-Enke Road Maricopa, AZ 85239	2 0 0 0 0 1 9 2	

Place the appropriate data that describes the varietal characteristic of this variety in the space provided. Characteristics described, including numerical measurements, should represent those that are typical for the variety. Royal Horticultural Society or any recognized color fan may be used to determine plant colors. Characters marked with an asterisk * indicate necessary characters to be measured.

SPECIFIC VARIETIES USED FOR COMPARISON AS CHECK VARIETIES IN THIS APPLICATION: Use standard regional check varieties which are adapted to your area. One of the comparison varieties must be the most similar variety used in Exhibit B.

Variety 1. Maxxa Variety 2. _____ Variety 3. _____

* 1. SPECIES:

G. hirsutum L. *G. barbadense* L.

* 2. AREA(S) OF ADAPTATION: (A = Adapted, NA = Not Adapted, NT = Not Tested)

<u>NT</u> Eastern	<u>NT</u> Delta	<u>NT</u> Central	<u>NT</u> Blacklands
<u>NT</u> Plains	<u>NT</u> Western	<u>A</u> Arizona (high elevation)	<u>A</u> San Joaquin
<u>Other (Specify):</u> _____			

3. GENERAL: Characteristics which are known to be variable but are still useful for a meaningful description of the variety.

	Application Variety	Comparison Variety 1	Comparison Variety 2	Comparison Variety 3
--	---------------------	----------------------	----------------------	----------------------

Plant Habit:

Spreading, Intermediate, Compact	Intermediate	Intermediate
----------------------------------	--------------	--------------

Foliage:

Sparse, Intermediate, Dense	Intermediate	Intermediate
-----------------------------	--------------	--------------

Stem Lodging:

Lodging, Intermediate, Erect	Erect	Erect
------------------------------	-------	-------

Fruiting Branch:

Clustered, Short, Normal	Normal	Normal
--------------------------	--------	--------

Growth:

Determinate, Intermediate, Indeterminate	Intermediate	Intermediate
---	--------------	--------------

Leaf Color:

Greenish yellow, Light green, Medium green, Dark green	Green	Green
---	-------	-------

200000192

3. GENERAL: (continued)

Boll Shape: Length less than width, Length equal to width, Length more than width	Length more than width	Length more than width
Boll Breadth: Broadest at base, Broadest at middle	Broadest at base	Broadest at base

* 4. MATURITY: (50% Open Bolls; Preferred method; Describe method if different method was used.)

Estimated % open Oct. 1	89	85
-------------------------	----	----

5. PLANT:

Cm to 1st Fruiting Branch:
(from cotyledonary node)**No. of Nodes to 1st Fruiting Branch:**
(excluding cotyledonary node)

Mature Plant Height cm: (from cotyledonary node to terminal)	117	114
--	-----	-----

*6. LEAF: Upper most, fully expanded leaf.

Type: Normal, sub Okra, Okra, Super Okra	Normal	Normal
--	--------	--------

Pubescence: Absent, Sparse, Medium, Dense OR Trichomes/cm ² (Bottom surface excluding veins)	Medium	Medium
--	--------	--------

Nectaries: Present or Absent	Present	Present
-------------------------------------	---------	---------

*7. STEM PUBESCENCE: Glabrous, Intermediate, Hairy	Intermediate	Intermediate
--	--------------	--------------

*8. GLANDS: (Gossypol) Absent, Sparse, Normal, More Than Normal

Leaf:	Normal	Normal
--------------	--------	--------

Stem:	Normal	Normal
--------------	--------	--------

Calyx Lobe: (normal is absent)

*9. FLOWER:

Petals: Cream, Yellow	Cream	Cream
------------------------------	-------	-------

Pollen: Cream, Yellow	Cream	Cream
------------------------------	-------	-------

Petal Spot: Present, Absent	Absent	Absent
------------------------------------	--------	--------

*10. SEED:

Seed Index:
(g/100 seed, fuzzy basis)**Lint Index:**
(g lint/100 seeds)

*11. BOLL:

Lint Percent:

 Picked Pulled

OR

Gin Turnout:

 Picked Stripped 35.4 36.8

Number of Seeds per Boll

Grams Seed Cotton per Boll 7.3 6.7

Number of Locules per Boll 4-5 4-5

Boll Type:

(Stormproof, Storm Resistant, Open) Open Open

12. FIBER PROPERTIES:

Specify Method (HVI or other): Individual Instruments

* Length: (inches, 2.5% SL) 1.220 1.182

* Uniformity: (%) 84.5 84.4

* Strength, T1 (g/tex) 36.0 35.1

* Elongation, E1 (%) 6.3 6.7

* Micronaire: 4.38 4.29

Fineness (Source: AFIS) 165 161

Yarn Tenacity: (cN/tex, 27 tex)

Yarn Strength: (lbs. 22's) 160 156

13. DISEASES: (NT = Not Tested, S = Susceptible, MS = Moderately Susceptible, MR = Moderately Resistant, R = Resistant)

NT *Alternaria macrospora*NT *Fusarium Wilt*NT *Anthracnose*NT *Phymatotrichum Root Rot*NT *Ascochyta Blight*NT *Pythium* (specify species)NT *Bacterial Blight (Race 1)*NT *Rhizoctonia solani*NT *Bacterial Blight (Race 2)*NT *Southwestern Cotton Rust*NT *Bacterial Blight (Race _____)*NT *Thielaviopsis basicola*NT *Diplodia Boll Rot*R *Verticillium Wilt*_____ Other (specify) _____

14. NEMATODES, INSECTS AND PESTS: (NT = Not Tested, S = Susceptible, MS = Moderately Susceptible, MR = Moderately Resistant, R = Resistant)

NT Root-Knot Nematode

NT Reniform Nematode

NT Boll Weevil

NT Grasshopper (specify species): _____

NT Bollworm

NT Lygus (specify species): _____

NT Cotton Aphid

NT Pink Bollworm

NT Cotton Fleahopper

NT Spider Mite (specify species): _____

NT Cotton Leafworm

NT Stink Bug (specify species): _____

NT Cutworm (specify species): _____

NT Thrips (specify species): _____

NT Fall Armyworm

NT Tobacco Bud Worm

Other (specify): _____

15. COMMENTS: Present any additional information that cannot adequately be described in 1 through 13 which significantly distinguishes your variety.

200000192

Exhibit D

Additional Description of Variety

The SJVCB ACALA Fiber Summary for 1997-1998 comparing OA-207 to the standard, Maxxa, can be found on the pages that follow.

20000192

**SJVCB ACALA FIBER QUALITY SUMMARY
1997-98**

	MAXXA	BR 9605	C-165	C-166	OA-207	CV%		
1 FIBER LENGTH								
Fibrogrph 2.5%-Strlb	1.175 b	1.181 b	1.181 b	1.218 a	+1.181 b	0.6		
Upper quartile AFIS	1.239 b	1.240 b	1.239 b	1.290 a	+1.234 b	1.3		
HVI-ITC	1.159 b	1.162 b	1.157 b	1.219 a	+1.161 b	1.2		
HVI-Starlab	1.166 cd	1.173 bc	1.164 d	1.219 a	+1.176 b	1.4		
HVI-VCO (Vis.Cl.Off)	1.163 c	1.165 c	1.163 c	1.221 a	+1.176 b	1.5		
2 LENGTH UNIFORMITY								
Fbrgrph Unif Ratio-St	48.3 a	48.6 a	49.0 a	49.0 a	48.8 a	1.6		
AFIS-Unif(M/UQ)	81.6 b	81.7 b	82.9 a	+ 82.0 b	82.0 b	0.7		
HVI Unif Index-ITC	83.2 b	83.3 b	83.4 b	84.1 a	+ 83.3 b	0.5		
HVI Unif Index-Strlb	83.8 b	83.7 b	83.9 b	85.1 a	+ 83.8 b	0.7		
HVI Unif Index-VCO	84.2 bc	83.9 c	84.1 bc	85.1 a	+ 84.3 b	0.8		
% Short Fiber-AFIS	9.7 b	9.5 b	8.2 a	+ 8.3 a	+ 9.3 b	9.7		
3 % FIBER STRENGTH								
Stelometer-Int std	23.8 c	23.3 d	-	25.6 b	+ 26.2 a	24.1 c	3.0	
HVI-ITC	33.6 c	33.4 c	34.5 b	+ 36.6 a	+ 33.7 c	2.1		
HVI-Strlb	33.2 c	33.1 c	34.6 b	+ 35.8 a	+ 33.5 c	2.5		
HVI-VCO	33.9 cd	33.7 d	34.7 b	+ 36.3 a	+ 34.3 bc	2.7		
4 ELONGATION								
Stelometer	6.6 ab	6.9 a	6.5 b	-	6.6 ab	6.0 c	-	6.4
HVI-ITC	6.0 c	6.1 b	+ 5.9 d	-	6.2 a	+ 5.9 d	-	1.6
HVI-Strlb	9.6 c	9.7 b	+ 9.7 b	+ 9.9 a	+ 9.7 b	+ 9.7 b	+	1.7
5 MICRONIARE								
Fibronaire-Strlb	4.30 c	4.40 b	4.40 b	4.26 c	4.48 a	3.0		
HVI-ITC	4.21 c	4.34 b	4.37 b	4.14 c	4.47 a	2.6		
HVI-Strlb	4.20 b	4.33 a	4.31 a	4.12 b	4.39 a	2.7		
HVI-VCO	4.20 b	4.33 a	4.36 a	4.12 c	4.39 a	2.5		
6 FIBER FINENESS								
Perimeter-Arealometer	45.9 d	44.3 c	+ 43.2 c	+ 38.1 a	+ 41.8 b	+ 4.7		
Millitex-AFIS	165 b	165 b	165 b	157 a	+ 166 b	1.6		
Std Fineness-AFIS	181 d	181 d	177 b	+ 171 a	+ 179 c	+ 1.2		
7 FIBER MATURITY %								
% Maturity-Areal	86.0 d	89.7 c	+ 90.6 c	+ 96.4 a	+ 93.9 b	+ 3.8		
Maturity Ratio-AFIS	0.91 b	0.91 b	0.93 a	+ 0.92 b	0.93 a	+ 1.2		
8 COLOR TRASH-NEPS								
Rd-VCO	79.1 a	78.9 a	78.9 a	78.9 a	78.8 a	1.0		
b+ VCO	7.9 a	7.8 a	7.8 a	7.8 a	7.8 a	1.9		
Leaf	4.0 a	4.4 bc	-	4.1 ab	4.5 c	-	4.2 ab	11.1
% non lint-Shirley	3.0 b	3.1 b	3.1 b	2.7 a	+ 2.5 a	+ 12.7		
Trash part./gm AFIS	620 ab	671 bc	607 ab	711 c	- 591 a	21.7		
Seed frgmnts/5gms	57 a	52 a	67 b	- 50 a	54 a	26.3		
Neps/gm-AFIS	221 a	210 a	209 a	258 b	- 225 a	13.3		
9 SEED QUALITY								
% Oil	19.6 c	20.1 b	+ 20.3 b	+ 22.0 a	+ 20.2 b	+ 1.5		
% NH3	4.71 b	4.63 b	4.86 a	+ 4.66 b	4.54 c	- 1.9		
% Linters	11.0 d	10.4 c	+ 10.4 c	+ 9.2 a	+ 10.0 b	+ 3.7		
Grade	111 d	113 c	+ 115 b	+ 121 a	+ 113 c	+ 1.0		
% Gossypol	1.13 c	1.16 c	1.15 c	0.14 a	+ 0.99 b	+ 9.7		
% FFA	0.3 b	0.3 b	0.3 b	0.2 a	+ 0.3 b	+ 31.9		

Avg of 15 test sites (6 sites for seed measurements)

Values within a line not having a common letter are signif. diff. at 95% prob.
+signif. better than the std -signif. poorer (significance not shown for mic)

200000192

**SJVCB ACALA YARN QUALITY SUMMARY
1997-98**

	MAXXA	BR 9605	C-165	C-166	OA-207	CV%		
1 % MANUFACTURING WASTE								
Picker & card waste	5.2 ab	5.2 ab	5.7 b	4.6 a	4.7 a	10.4		
Comber waste	16.1 bc	16.2 c	15.1 ab	14.3 a	+ 15.5 bc	1.6		
Total waste	20.4 cd	20.6 d	19.9 bc	18.3 a	+ 19.5 b	2.5		
2 YARN STRENGTH								
Ne22 min spin mN/tex	144 d	143 d	154 b	+ 160 a	+ 147 c	2.4		
Ne36 carded CSP	2716 c	2686 c	2903 b	+ 3179 a	+ 2707 c	1.0		
Ne50 carded CSP	2446 c	2447 c	2605 b	+ 2954 a	+ 2455 c	2.0		
Ne50 combed CSP	2806 c	2751 d	- 3003 b	+ 3275 a	+ 2781 cd	1.3		
Ne36 rotor CSP	2116 c	2124 c	2296 b	+ 2465 a	+ 2139 c	1.7		
3 SINGLE YARN ELONGATION								
Ne36 carded	5.1 a	5.1 a	5.0 b	-	5.2 a	4.8 b	-	2.1
Ne50 carded	4.7 b	4.6 bc	4.6 c	-	4.8 a	+ 4.4 d	-	1.8
Ne50 combed	4.8 b	4.8 b	4.8 b	-	5.1 a	+ 4.7 c	-	1.2
Ne36 rotor	5.2 b	5.3 b	5.1 c	-	5.4 a	+ 5.0 c	-	1.5
4 NEPS/1000 YARDS								
Ne36 carded	1276 a	1124 a	1144 a	1017 a	1103 a	5.2		
Ne50 carded	1875 c	1676 b	+ 1656 b	+ 1526 a	+ 1611 ab	+ 4.4		
Ne50 combed	328 a	265 a	273 a	285 a	275 a	12.6		
Ne36 rotor	210 a	173 a	181 a	147 a	173 a	6.2		
5 YARN EVENNESS								
Ne36 carded cv%	22.1 c	22.0 c	21.5 b	+ 20.1 a	+ 21.9 bc	1.7		
Ne50 carded cv%	24.3 d	24.2 cd	23.5 b	+ 22.2 a	+ 24.0 c	+ 0.9		
Ne50 combed cv%	18.5 d	18.3 d	17.8 b	+ 16.9 a	+ 18.1 c	+ 0.9		
Ne36 rotor cv%	17.9 c	17.7 bc	17.5 b	+ 16.5 a	+ 17.7 bc	0.9		
Ne50 carded thick	1950 d	1908 d	1731 b	+ 1509 a	+ 1812 c	3.4		
Ne50 combed thick	429 d	393 c	+ 324 b	+ 270 a	+ 363 c	+ 7.9		
Ne50 carded thin	988 cd	1009 d	808 b	+ 529 a	+ 923 c	7.3		
Ne50 combed thin	257 d	232 cd	166 b	+ 101 a	+ 208 c	+ 12.6		
6 YARN APPEARANCE								
Ne36 carded app index	90 a	90 a	93 a	92 a	97 a	11.1		
Ne50 carded app index	90 a	95 a	97 a	90 a	95 a	10.4		
Ne50 combed app index	113 a	112 a	115 a	108 a	118 a	5.6		
Ne36 rotor app index	115 a	117 a	122 a	120 a	117 a	10.7		
7 FABRIC-KNITTED								
Dye uptake dE	71.6 a	72.0 a	72.1 a	72.2 a	72.0 a	0.6		
Dye defects/sq in	0.50 a	0.63 a	0.60 a	0.60 a	0.53 a	39.6		

Average of 3 test sites (except Ne 22 yarn strength--15 sites)

Values within a line not having a common letter are signif. diff. at 95% probability

+signif. better than the std -signif. poorer than the std

200000192

**SJVCB ACALA FIBER QUALITY SUMMARY
RELATIVE VALUES 1997-98**

	MAXXA	BR 9605	C-165	C-166	OA-207	CV%
1 FIBER LENGTH						
Fibrogrph 2.5%-Strlb	100 b	100 b	100 b	104 a +	100 b	0.6
Upper quartile AFIS	100 b	100 b	100 b	104 a +	100 b	1.3
HVI-ITC	100 b	100 b	100 b	105 a +	100 b	1.2
HVI-Starlab	100 cd	101 bc	100 d	105 a +	101 b	+ 1.4
HVI-VCO (Vis.Cl.Off)	100 c	100 c	100 c	105 a +	101 b	+ 1.5
2 LENGTH UNIFORMITY						
Fbrgrph Unif Ratio-St	100 a	101 a	101 a	101 a	101 a	1.6
AFIS-Unif(M/UQ)	100 b	100 b	102 a +	101 b	100 b	0.7
HVI Unif Index-ITC	100 b	100 b	100 b	101 a +	100 b	0.5
HVI Unif Index-Strlb	100 b	100 b	100 b	102 a +	100 b	0.7
HVI Unif Index-VCO	100 bc	100 c	100 bc	101 a +	100 b	0.8
% Short Fiber-AFIS *	100 b	98 b	85 a +	86 a +	96 b	9.7
3 % FIBER STRENGTH						
Stelometer-Int std	100 c	98 d -	107 b +	110 a +	101 c	3.0
HVI-ITC	100 c	99 c	102 b +	109 a +	100 c	2.1
HVI-Strlb	100 c	100 c	104 b +	108 a +	101 c	2.5
HVI-VCO	100 cd	100 d	102 b +	107 a +	101 bc	2.7
4 ELONGATION						
Stelometer	100 ab	104 a	99 b	101 ab	92 c -	6.4
HVI-ITC	100 c	101 b +	98-d -	103 a +	98 d -	1.6
HVI-Strlb	100 c	102 b +	101 b +	103 a +	101 b +	1.7
5 MICRONIARE						
Fibronaire-Strlb	100 c	102 b	102 b	99 c	104 a	3.0
HVI-ITC	100 c	103 b	104 b	98 c	106 a	2.6
HVI-Strlb	100 b	103 a	103 a	98 b	104 a	2.7
HVI-VCO	100 b	103 a	104 a	98 c	105 a	2.5
6 FIBER FINENESS						
Perimeter-Arealometer*	100 d	97 c +	94 c +	83 a +	91 b +	4.7
Millitex-AFIS *	100 b	100 b	100 b	95 a +	101 b	1.6
Std Fineness-AFIS *	100 d	100 d	97 b +	94 a +	99 c +	1.2
7 FIBER MATURITY %						
% Maturity-Areal	100 d	104 c +	105 c +	112 a +	109 b +	3.8
Maturity Ratio-AFIS	100 b	100 b	102 a +	101 b	102 a +	1.2
8 COLOR TRASH-NEPS						
Rd-VCO	100 a	100 a	100 a	100 a	100 a	1.0
b+ VCO	* 100 a	99 a	99 a	99 a	99 a	1.9
Leaf	* 100 a	108 bc -	102 ab	111 c -	103 ab	11.1
% non lint-Shirley	* 100 b	102 b	103 b	90 a +	83 a +	12.7
Trash part./gm AFIS	* 100 ab	108 bc	98 ab	115 c -	95 a	21.7
Seed frgmts/5gms	* 100 a	91 a	119 b -	87 a	95 a	26.3
Neps/gm-AFIS	* 100 a	95 a	95 a	117 b -	102 a	13.3
9 SEED QUALITY						
% Oil	100 c	103 b +	103 b +	112 a +	103 b +	1.5
% NH3	100 b	98 b	103 a +	99 b	96 c -	1.9
% Linters	* 100 d	95 c +	95 c +	84 a +	91 b +	3.7
Grade	100 d	102 c +	104 b +	109 a +	102 c +	1.0
% Gossypol	* 100 c	102 c	102 c	12 a +	88 b +	9.7
% FFA	* 100 b	124 b	97 b	63 a +	106 b	31.9

All values are relative to the Maxxa standard, set at 100.

*A decrease in relative value represents an improvement (e.g. no. of neps)

+signif. better than the std -signif. poorer (significance not shown for mic)

200000192

**SJVCB ACALA YARN QUALITY SUMMARY
1997-98**

	MAXXA	BR 9605	C-165	C-166	OA-207	CV%
1 % MANUFACTURING WASTE						
Picker & card waste	* 100 ab	101 ab	111 b	89 a	91 a	10.4
Comber waste	* 100 bc	101 c	94 ab	89 a +	97 bc	1.6
Total waste	* 100 cd	101 d	98 bc	90 a +	96 b +	2.5
2 YARN STRENGTH						
Ne22 min spin mN/tex	100 d	99 d	107 b +	111 a +	102 c +	2.4
Ne36 carded CSP	100 c	99 c	107 b +	117 a +	100 c	1.0
Ne50 carded CSP	100 c	100 c	107 b +	121 a +	100 c	2.0
Ne50 combed CSP	100 c	98 d -	107 b +	117 a +	99 cd	1.3
Ne36 rotor CSP	100 c	100 c	108 b +	116 a +	101 c	1.7
3 SINGLE YARN ELONGATION						
Ne36 carded	100 a	100 a	97 b -	102 a	95 b -	2.1
Ne50 carded	100 b	99 bc	98 c -	104 a +	95 d -	1.8
Ne50 combed	100 b	100 b	99 b	105 a +	97 c -	1.2
Ne36 rotor	100 b	101 b	97 c -	104 a +	96 c -	1.5
4 NEPS/1000 YARDS						
Ne36 carded	* 100 a	88 a	90 a	80 a	86 a	5.2
Ne50 carded	* 100 c	89 b +	88 b +	81 a +	86 ab +	4.4
Ne50 combed	* 100 a	81 a	83 a	87 a	84 a	12.6
Ne36 rotor	* 100 a	83 a	86 a	70 a	83 a	6.2
5 YARN EVENNESS						
Ne36 carded cv%	* 100 c	99 c	97 b +	91 a +	99 bc	1.7
Ne50 carded cv%	* 100 d	100 cd	97 b +	91 a +	99 c +	0.9
Ne50 combed cv%	* 100 d	99 d	96 b +	91 a +	98 c +	0.9
Ne36 rotor cv%	* 100 c	99 bc	98 b +	92 a +	99 bc	0.9
Ne50 carded thick	* 100 d	98 d	89 b +	77 a +	93 c +	3.4
Ne50 combed thick	* 100 d	92 c +	76 b +	63 a +	85 c +	7.9
Ne50 carded thin	* 100 cd	102 d	82 b +	53 a +	93 c	7.3
Ne50 combed thin	* 100 d	90 cd	65 b +	39 a +	81 c +	12.6
6 YARN APPEARANCE						
Ne36 carded app index	100 a	100 a	104 a	102 a	107 a	11.1
Ne50 carded app index	100 a	106 a	107 a	100 a	106 a	10.4
Ne50 combed app index	100 a	99 a	101 a	96 a	104 a	5.6
Ne36 rotor app index	100 a	101 a	106 a	104 a	101 a	10.7
7 FABRIC-KNITTED						
Dye uptake dE	100 a	101 a	101 a	101 a	101 a	0.6
Dye defects/sq in	* 100 a	127 a	120 a	120 a	107 a	39.6

All values are relative to the Maxxa standard, set at 100.

*A decrease in relative value represents an improvement (e.g. no. of neps)
+signif. better than the std -signif. poorer than the std

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE**EXHIBIT E**
STATEMENT OF THE BASIS OF OWNERSHIP*The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.**Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).*

1. NAME OF APPLICANT(S) O & A Enterprises, Inc.	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER OA-207	3. VARIETY NAME DP 6207 ACALA
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country) 37860 W. Smith-Enke Road Maricopa, AZ 85239	5. TELEPHONE (include area code) (520) 568-2276 X219	6. FAX (include area code) (520) 568-2556
	7. PVPO NUMBER 200000192	

8. Does the applicant own all rights to the variety? Mark an "X" in appropriate block. If no, please explain. YES NO

9. Is the applicant (individual or company) a U.S. national or U.S. based company?
If no, give name of country YES NO

10. Is the applicant the original owner? YES NO If no, please answer one of the following:

a. If original rights to variety were owned by individual(s), is (are) the original owner(s) a U.S. national(s)?

YES NO If no, give name of country

b. If original rights to variety were owned by a company(ies), is(are) the original owner(s) a U.S. based company?

YES NO If no, give name of country

11. Additional explanation on ownership (if needed, use reverse for extra space):

PLEASE NOTE:

Plant variety protection can be afforded only to owners (not licensees) who meet one of the following criteria:

1. If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.
2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.
3. If the applicant is an owner who is not the original owner, both the original owner and the applicant must meet one of the above criteria.

The original breeder/owner may be the individual or company who directed final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definition.

According to the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 10 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in its programs on the basis of race, color, national origin, sex, religion, age, disability, political beliefs, and marital or familial status. (Not all prohibited bases apply to all programs). Persons with disabilities who require alternative means for communication of program information (braille, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint, write the Secretary of Agriculture, U.S. Department of Agriculture, Washington, D.C. 20250, or call 1-800-245-6340 (voice) or (202) 720-1127 (TDD). USDA is an equal opportunity employer.